

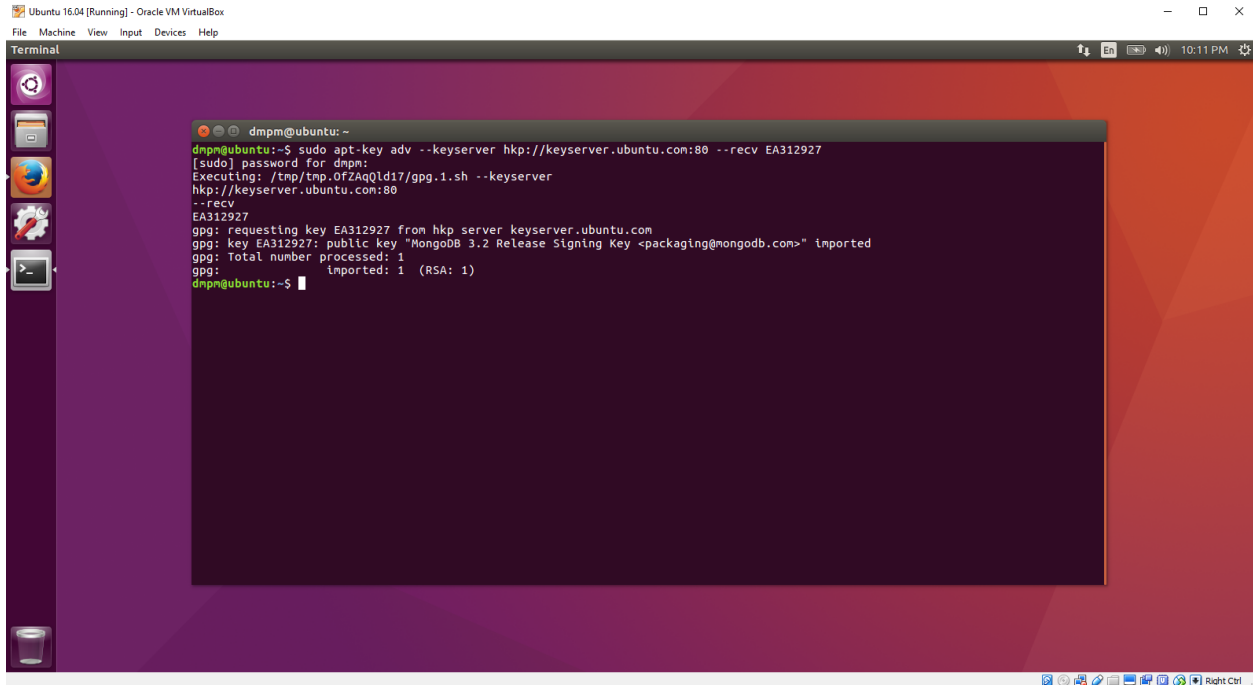


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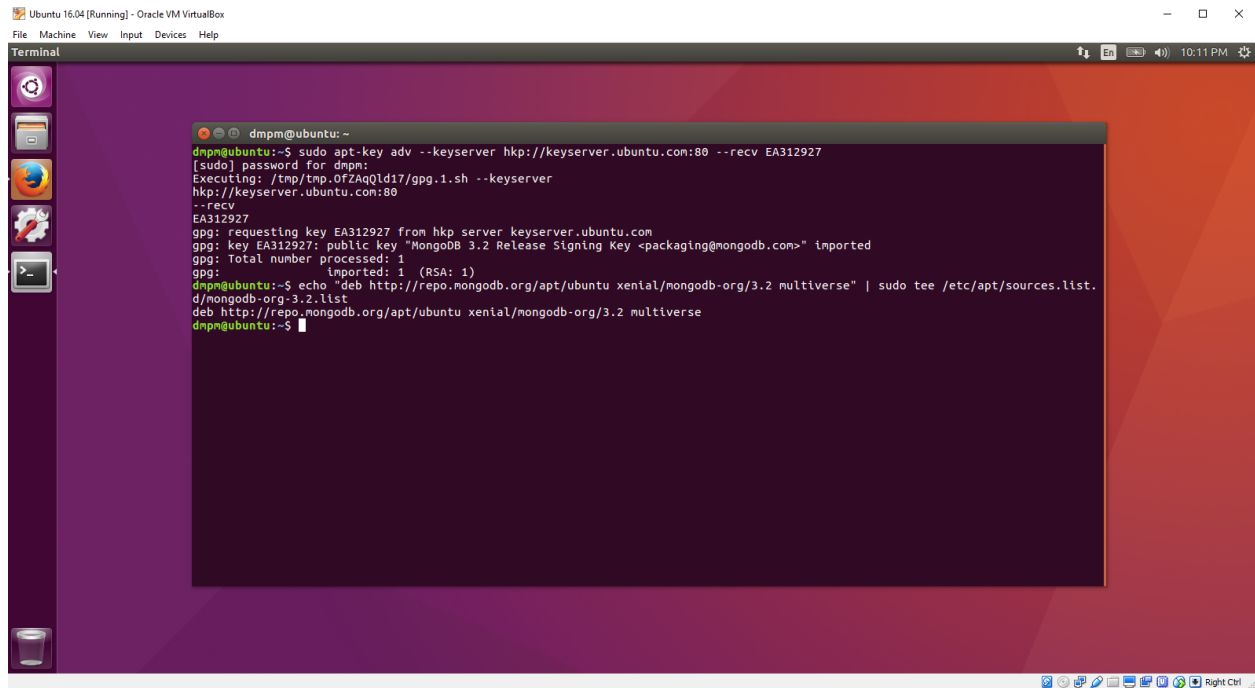
Instalando o MongoDB no  
Linux Ubuntu 16.04

- 1- O MongoDB já está incluído nos repositórios de pacotes do Ubuntu, mas o repositório MongoDB oficial fornece a versão mais atualizada e é a maneira recomendada de instalar o software. Nesta etapa, adicionaremos este repositório oficial ao nosso servidor. O Ubuntu garante a autenticidade dos pacotes de software, verificando que eles são assinados com chaves GPG, então primeiro precisamos importar a chave para o repositório MongoDB oficial.



```
dmpm@ubuntu:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
[sudo] password for dmpm:
Executing: /tmp/tmp.0fZAqld17/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80
--recv
EA312927
gpg: requesting key EA312927 from hkp server keyserver.ubuntu.com
gpg: key EA312927: public key "MongoDB 3.2 Release Signing Key <packaging@mongodb.com>" imported
gpg: Total number processed: 1
gpg:      imported: 1 (RSA: 1)
dmpm@ubuntu:~$
```

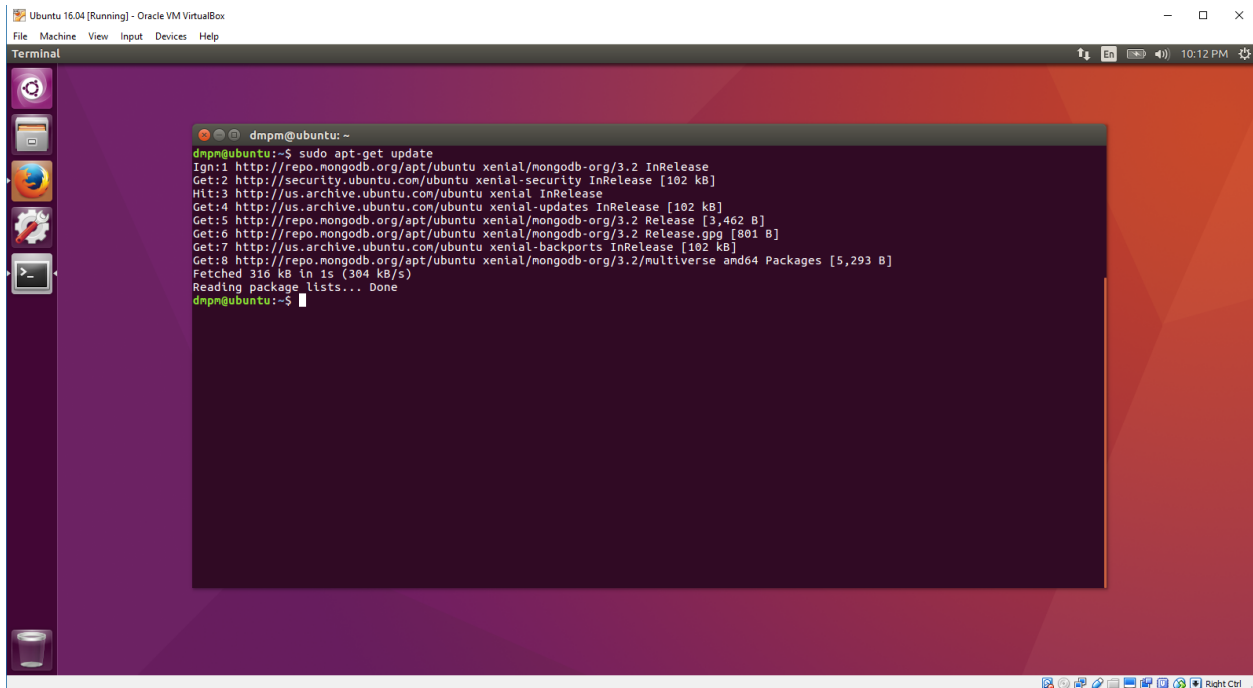
- 2- Chave adicionada com sucesso. Em seguida, temos que adicionar os detalhes do repositório do MongoDB, assim o apt saberá onde baixar os pacotes. Execute o seguinte comando para criar um arquivo de lista para o MongoDB.



```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
10:11 PM

dmpm@ubuntu: ~
dmpm@ubuntu:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
[sudo] password for dmpm:
Executing: /tmp/tmp.0fZAqQld17/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80
--recv
EA312927
gpg: requesting key EA312927 from hkp server keyserver.ubuntu.com
gpg: key EA312927: public key "MongoDB 3.2 Release Signing Key <packaging@mongodb.com>" imported
gpg: Total number processed: 1
gpg:      imported: 1 (RSA: 1)
dmpm@ubuntu:~$ echo "deb http://repo.mongodb.org/apt/ubuntu xential/mongodb-org/3.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list
deb http://repo.mongodb.org/apt/ubuntu xential/mongodb-org/3.2 multiverse
dmpm@ubuntu:~$
```

### 3- Depois de adicionar os detalhes do repositório, precisamos atualizar a lista de pacotes.



The screenshot shows a terminal window titled 'Terminal' within an 'Ubuntu 16.04 [Running] - Oracle VM VirtualBox' environment. The terminal displays the command `sudo apt-get update` and its output, which lists various package repositories and their update status. The output includes information about the MongoDB repository, security updates, and other system packages. The terminal window is overlaid on a desktop background with a purple and red gradient. The desktop has a sidebar with icons for applications like Firefox and a system tray at the bottom right showing the time as 10:12 PM.

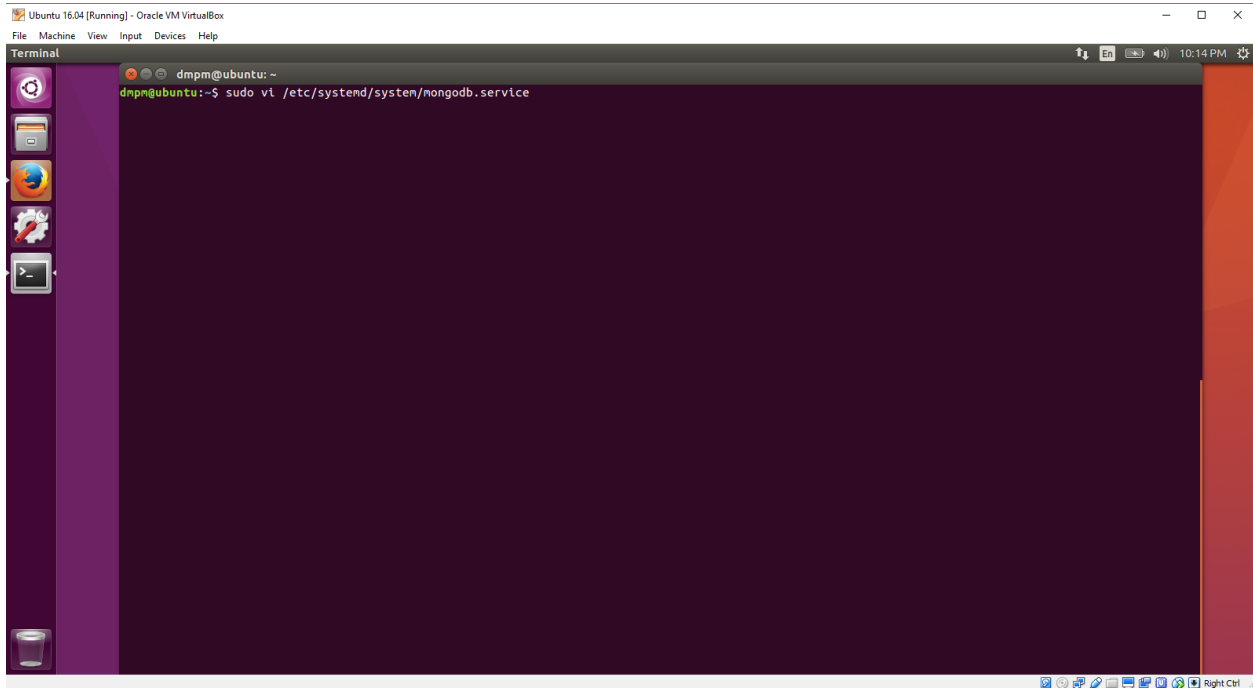
```
dmpm@ubuntu:~$ sudo apt-get update
Ign:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Hit:3 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:4 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 Release [3,462 B]
Get:6 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 Release.gpg [801 B]
Get:7 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:8 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 Packages [5,293 B]
Fetched 316 kB in 1s (384 kB/s)
Reading package lists... Done
dmpm@ubuntu:~$
```

## 4- Instalando o MongoDB.

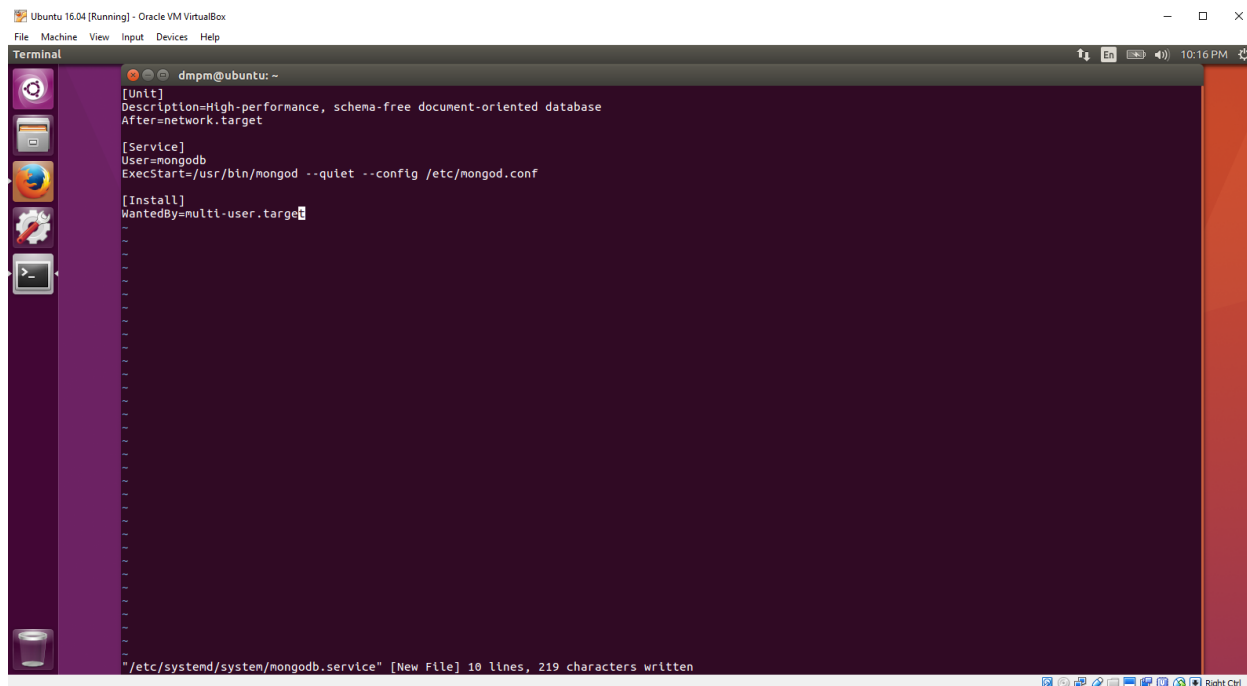
```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu:~$ sudo apt-get install -y mongodb-org
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will be installed:
  mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
0 upgraded, 5 newly installed, 0 to remove and 3 not upgraded.
Need to get 51.6 MB of archives.
After this operation, 214 MB of additional disk space will be used.
Get:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.12 [5,254 kB]
Get:2 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.12 [9,964 kB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.12 [4,652 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.12 [31.7 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org amd64 3.2.12 [3,558 B]
Fetched 51.6 MB in 5s (9,415 kB/s)
Selecting previously unselected package mongodb-org-shell.
(Reading database ... 208822 files and directories currently installed.)
Preparing to unpack .../mongodb-org-shell_3.2.12_amd64.deb ...
Unpacking mongodb-org-shell (3.2.12) ...
Selecting previously unselected package mongodb-org-server.
Preparing to unpack .../mongodb-org-server_3.2.12_amd64.deb ...
Unpacking mongodb-org-server (3.2.12) ...
Selecting previously unselected package mongodb-org-mongos.
Preparing to unpack .../mongodb-org-mongos_3.2.12_amd64.deb ...
Unpacking mongodb-org-mongos (3.2.12) ...
Selecting previously unselected package mongodb-org-tools.
Preparing to unpack .../mongodb-org-tools_3.2.12_amd64.deb ...
Unpacking mongodb-org-tools (3.2.12) ...
Selecting previously unselected package mongodb-org.
Preparing to unpack .../mongodb-org_3.2.12_amd64.deb ...
Unpacking mongodb-org (3.2.12) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up mongodb-org-shell (3.2.12) ...
Setting up mongodb-org-server (3.2.12) ...
Adding system user 'mongodb' (UID 121) ...
Adding new user 'mongodb' (UID 121) with group 'nogroup' ...
Not creating home directory '/home/mongodb'.
Adding group 'mongodb' (GID 129) ...
Done.
Adding user 'mongodb' to group 'mongodb' ...
Adding user mongodb to group mongodb
```

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu:~$ sudo apt-get install -y mongodb-org
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will be installed:
  mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
0 upgraded, 5 newly installed, 0 to remove and 3 not upgraded.
Need to get 51.6 MB of archives.
After this operation, 214 MB of additional disk space will be used.
Get:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.12 [5,254 kB]
Get:2 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.12 [9,964 kB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.12 [4,652 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.12 [31.7 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org amd64 3.2.12 [3,558 B]
Fetched 51.6 MB in 5s (9,415 kB/s)
Selecting previously unselected package mongodb-org-shell.
(Reading database ... 208822 files and directories currently installed.)
Preparing to unpack .../mongodb-org-shell_3.2.12_amd64.deb ...
Unpacking mongodb-org-shell (3.2.12) ...
Selecting previously unselected package mongodb-org-server.
Preparing to unpack .../mongodb-org-server_3.2.12_amd64.deb ...
Unpacking mongodb-org-server (3.2.12) ...
Selecting previously unselected package mongodb-org-mongos.
Preparing to unpack .../mongodb-org-mongos_3.2.12_amd64.deb ...
Unpacking mongodb-org-mongos (3.2.12) ...
Selecting previously unselected package mongodb-org-tools.
Preparing to unpack .../mongodb-org-tools_3.2.12_amd64.deb ...
Unpacking mongodb-org-tools (3.2.12) ...
Selecting previously unselected package mongodb-org.
Preparing to unpack .../mongodb-org_3.2.12_amd64.deb ...
Unpacking mongodb-org (3.2.12) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up mongodb-org-shell (3.2.12) ...
Setting up mongodb-org-server (3.2.12) ...
Adding system user 'mongodb' (UID 121) ...
Adding new user 'mongodb' (UID 121) with group 'nogroup' ...
Not creating home directory '/home/mongodb'.
Adding group 'mongodb' (GID 129) ...
Done.
Adding user 'mongodb' to group 'mongodb' ...
Adding user mongodb to group mongodb
Done.
Setting up mongodb-org-mongos (3.2.12) ...
Setting up mongodb-org-tools (3.2.12) ...
Setting up mongodb-org (3.2.12) ...
dmpm@ubuntu:~$
```

- 5- Criaremos um arquivo para gerenciar o serviço MongoDB. Crie um arquivo de configuração chamado `mongodb.service` no diretório `/etc/systemd/system` usando o `vi` ou seu editor de texto favorito.



6- Edite o arquivo e inclua as linhas conforme abaixo. Salve e feche o arquivo.



The screenshot shows a terminal window titled "Terminal" with the prompt "dmpm@ubuntu: ~". The user has created a new file named "/etc/systemd/system/mongod.service". The file contains the following configuration:

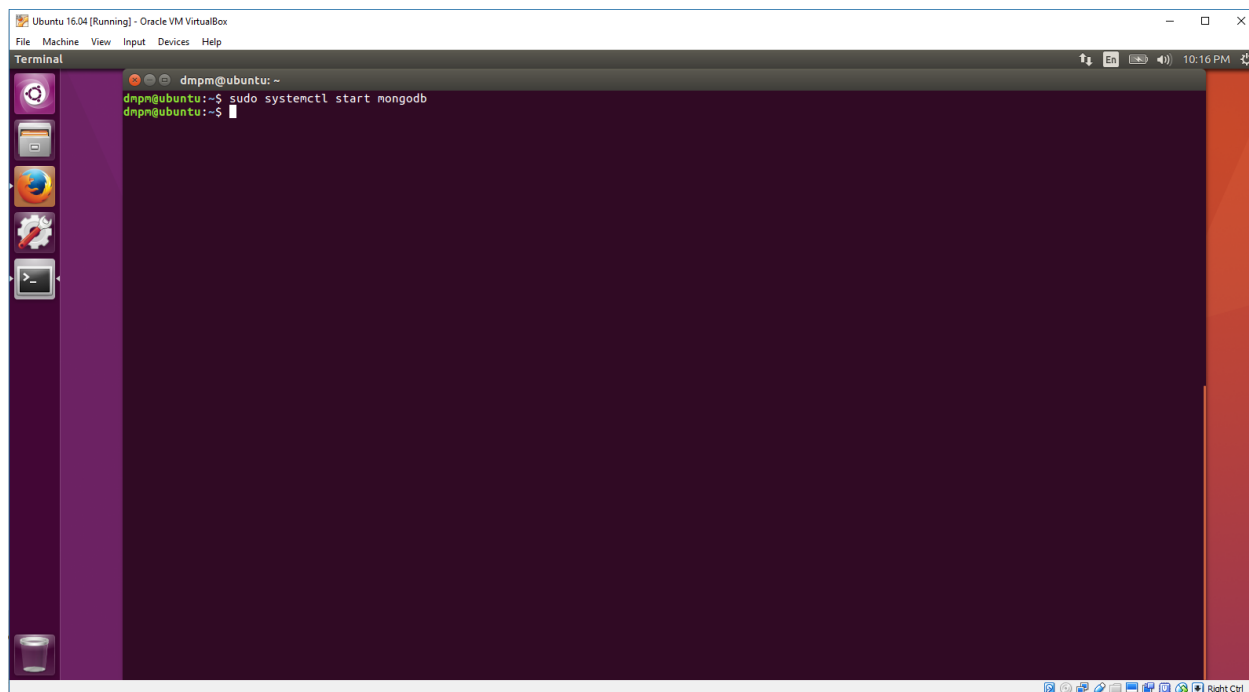
```
[Unit]
Description=High-performance, schema-free document-oriented database
After=network.target

[Service]
User=mongodb
ExecStart=/usr/bin/mongod --quiet --config /etc/mongod.conf

[Install]
WantedBy=multi-user.target
```

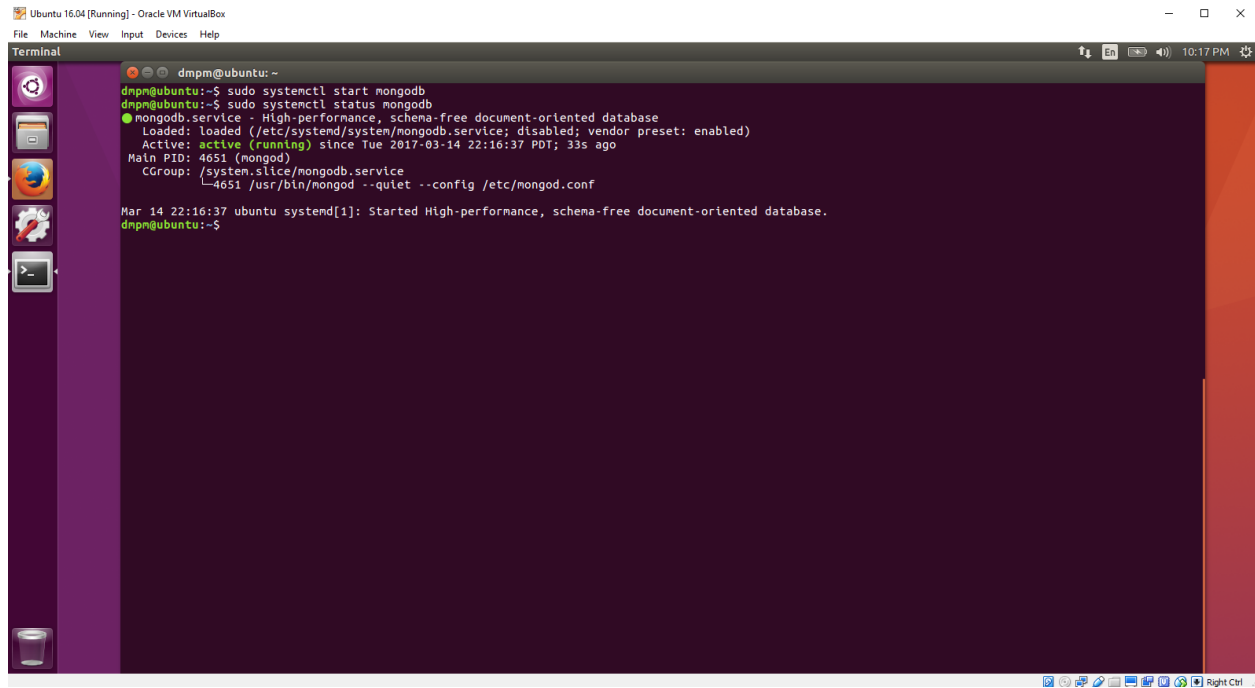
The status bar at the bottom of the terminal window indicates: "/etc/systemd/system/mongod.service" [New File] 10 lines, 219 characters written.

## 7- Inicialize o serviço.





## 8- Verifique o status.

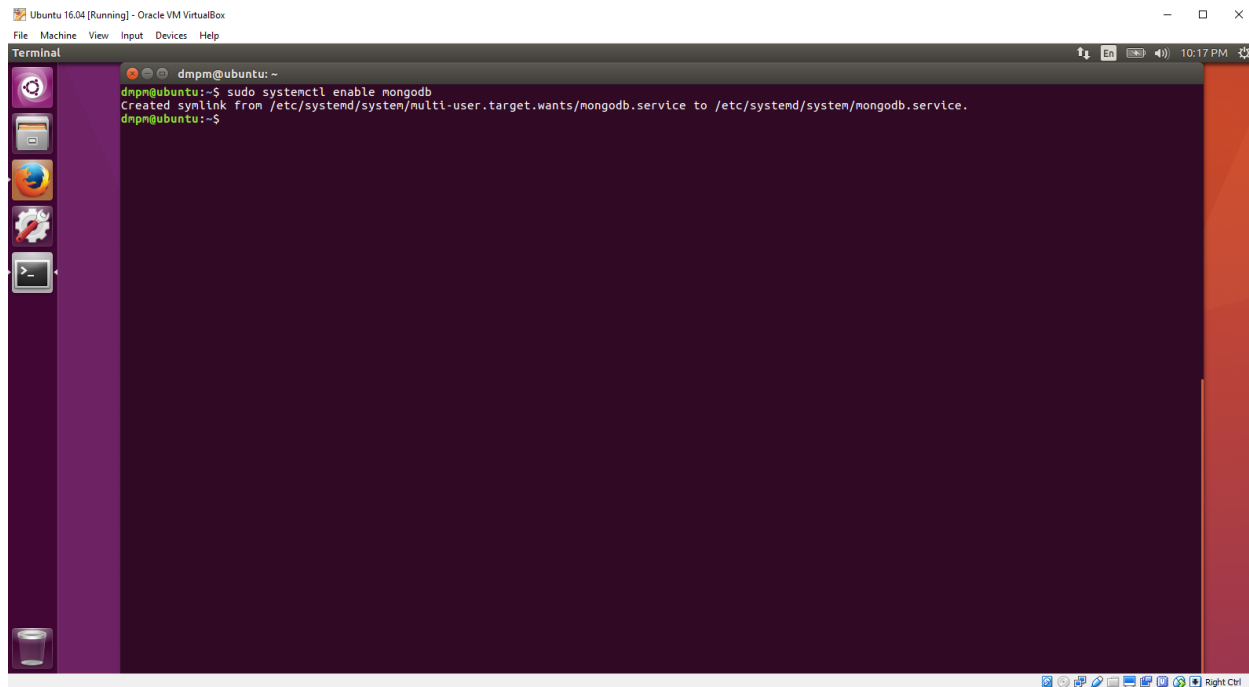


The screenshot shows a terminal window titled "Terminal" with the following content:

```
dpmp@ubuntu:~$ sudo systemctl start mongod
dpmp@ubuntu:~$ sudo systemctl status mongod
● mongod.service - High-performance, schema-free document-oriented database
   Loaded: loaded (/etc/systemd/system/mongod.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2017-03-14 22:16:37 PDT; 33s ago
     Main PID: 4651 (mongod)
       CGroup: /system.slice/mongod.service
              └─4651 /usr/bin/mongod --quiet --config /etc/mongod.conf

Mar 14 22:16:37 ubuntu systemd[1]: Started High-performance, schema-free document-oriented database.
dpmp@ubuntu:~$
```

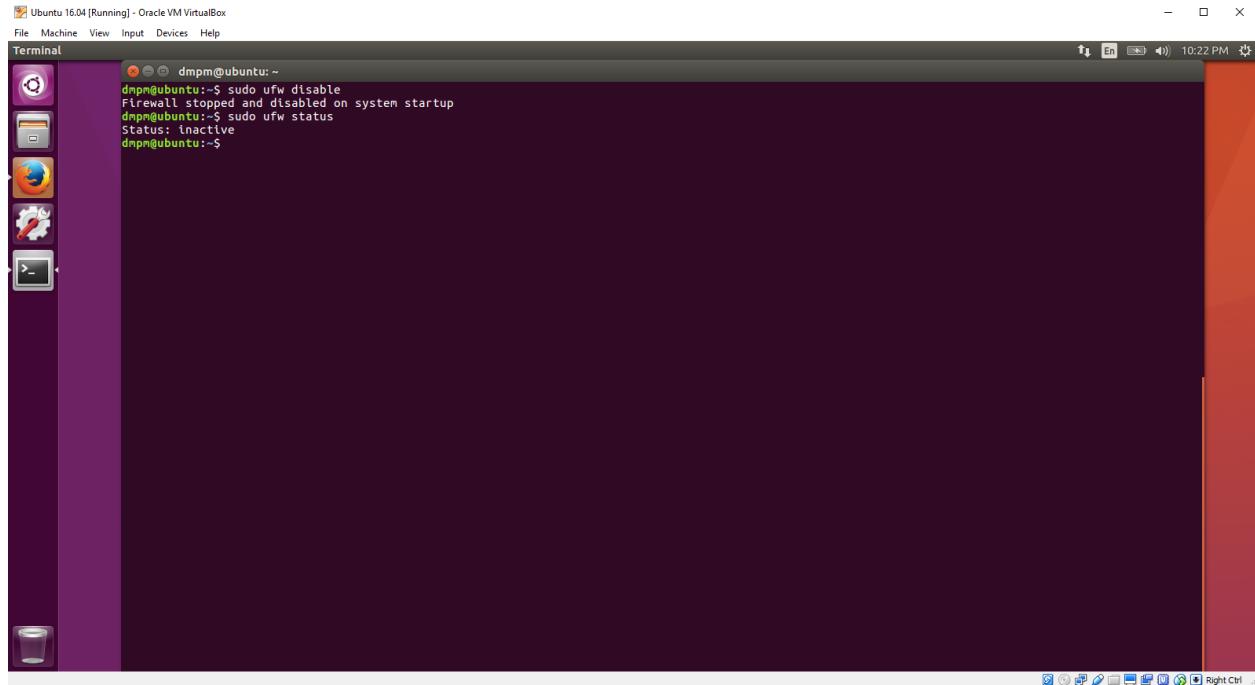
## 9- Habilite o serviço para ser inicializado automaticamente.



The screenshot shows a terminal window titled "Terminal" within an "Ubuntu 16.04 [Running] - Oracle VM VirtualBox" environment. The terminal prompt is "dmpm@ubuntu: ~". The user has entered the command "sudo systemctl enable mongod". The output of the command is "Created symlink from /etc/systemd/system/multi-user.target.wants/mongod.service to /etc/systemd/system/mongod.service." followed by a new prompt "dmpm@ubuntu:~\$". The terminal window has a dark purple background and a light blue border. The top of the window shows the title bar and menu options: File, Machine, View, Input, Devices, Help. The bottom of the window shows a taskbar with various icons and a system tray with a clock showing 10:17 PM.

```
dmpm@ubuntu: ~  
dmpm@ubuntu:~$ sudo systemctl enable mongod  
Created symlink from /etc/systemd/system/multi-user.target.wants/mongod.service to /etc/systemd/system/mongod.service.  
dmpm@ubuntu:~$
```

10- Se estiver em uma rede doméstica, desabilite o firewall.



The screenshot shows a terminal window titled "Terminal" within an "Ubuntu 16.04 [Running] - Oracle VM VirtualBox" environment. The terminal output is as follows:

```
dmpm@ubuntu: ~  
dmpm@ubuntu:~$ sudo ufw disable  
Firewall stopped and disabled on system startup  
dmpm@ubuntu:~$ sudo ufw status  
Status: inactive  
dmpm@ubuntu:~$
```

Digite **mongo** no terminal e acesse o console do MongoDB.